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### 1 [Incremental distance join algorithms for spatial databases](#)



Gísli R. Hjaltason, Hanan Samet

June 1998

**ACM SIGMOD Record , Proceedings of the 1998 ACM SIGMOD international conference on Management of data**, Volume 27 Issue 2

Publisher: ACM Press , ACM Press

Full text available: pdf(1.89 MB)

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Two new spatial join operations, distance join and distance semi-join, are introduced where the join output is ordered by the distance between the spatial attribute values of the joined tuples. Incremental algorithms are presented for computing these operations, which can be used in a pipelined fashion, thereby obviating the need to wait for their completion when only a few tuples are needed. The algorithms can be used with a large class of hierarchical spa ...

### 2 [Gross motion planning—a survey](#)



Yong K. Hwang, Narendra Ahuja

September 1992

**ACM Computing Surveys (CSUR)**, Volume 24 Issue 3

Publisher: ACM Press

Full text available: pdf(6.40 MB)

 Additional information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Motion planning is one of the most important areas of robotics research. The complexity of the motion-planning problem has hindered the development of practical algorithms. This paper surveys the work on gross-motion planning, including motion planners for point robots, rigid robots, and manipulators in stationary, time-varying, constrained, and movable-object environments. The general issues in motion planning are explained. Recent approaches and their performances are briefly described, a ...

**Keywords:** collision detection, computational geometry, implementation, motion planning, obstacle avoidance, path planning, spatial representation

### 3 [Automatic reconstruction of surfaces and scalar fields from 3D scans](#)



Chandrajit L. Bajaj, Fausto Bernardini, Guoliang Xu

September 1995

**Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**

Publisher: ACM Press

Full text available: pdf(443.88 KB)

 Additional information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** algebraic surfaces, alpha-shapes, geometric modeling, range data analysis, shape recovery, triangulations

### 4 [Accurate computation of the medial axis of a polyhedron](#)



Tim Culver, John Keyser, Dinesh Manocha

June 1999

**Proceedings of the fifth ACM symposium on Solid modeling and applications**



Publisher: ACM Press




Full text available: pdf(1.59 MB)

 Additional information: [full citation](#), [references](#), [citations](#), [index terms](#)

### 5 [Visibility-ordering meshed polyhedra](#)

Peter L. Williams

- April 1992 **ACM Transactions on Graphics (TOG)**, Volume 11 Issue 2
-  Publisher: ACM Press  
Full text available:  pdf(1.83 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)
- A visibility-ordering of a set of objects from some viewpoint is an ordering such that if object a obstructs object b, then b precedes a in the ordering. An algorithm is presented that generates a visibility-ordering of an acyclic convex set of meshed convex polyhedra. This algorithm takes time linear in the size of the mesh. Modifications to this algorithm and/or preprocessing techniques are described that permit nonconvex ...
- Keywords:** Delaunay triangulation, depth ordering, finite element methods, mesh generation, point location, scattered data, scientific visualization, triangulation, visibility ordering, volume rendering, volume visualization

- <sup>6</sup> [Building and traversing a surface at variable resolution](#)   
Leila De Floriani, Paola Magillo, Enrico Puppo  
October 1997 **Proceedings of the 8th conference on Visualization '97**  
Publisher: IEEE Computer Society Press  
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